



Ministry of Community, Sport and Cultural Development

2016 CARIP Climate Action/Carbon Neutral Progress Survey Public Report Attestation

As per the CARIP guidance, the Financial Officer is required to submit this attestation form to attest that:

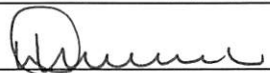
- On or before **June 1, 2017**, the information reported in the 2016 CARIP Climate Action/Carbon Neutral Progress Survey submitted online to the Province has been made public.

The Financial Officer must complete and sign this attestation form by the applicable deadline and email a scanned copy to the Province at infra@gov.bc.ca.

2016 CARIP Climate Action/Carbon Neutral Progress Survey Public Report Attestation Form — DUE on or before June 1, 2017

I declare that the information contained in the 2016 CARIP Climate Action/Carbon Neutral Progress Survey submitted online to the Province on May 12, 2017 for CENTRAL COAST REGIONAL DISTRICT was made public on May 05, 2017.

Name, Title (print) CFO Donna Mikkelsen

Signature: 

Date: May 05, 2017

Climate Action Revenue Incentive (CARIP) Public Report for 2016

Local Government:

Report Submitted by:

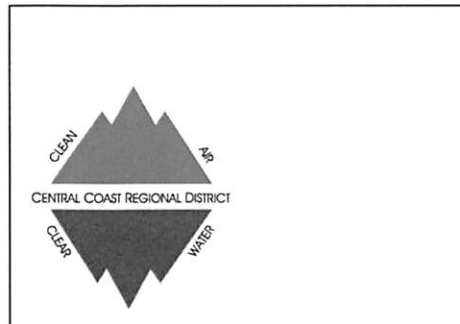
Name: Donna Mikkelson

Role: Chief Financial Officer

Email: cfo@ccrd-bc.ca

Phone: 250-799-5291

Date: May 11, 2017



The Central Coast Regional District has completed the 2016 Climate Action Revenue Incentive Program (CARIP) Public Report as required by the Province of BC. The CARIP report summarizes actions taken in 2016 and proposed for 2017 to reduce corporate and community-wide energy consumption and greenhouse gas emissions (GHG) and reports on progress towards achieving carbon neutrality.

Board Meeting
MAY 11 2017
CCRD ITEM C(d)

2016 BROAD PLANNING ACTIONS

Broad Planning Actions

Broad Planning refers to high level planning that sets the stage for GHG emissions reductions, including plans such as Official Community Plans, Integrated Community Sustainability Plans, Climate Action Plans or Community Energy Emissions Plans. Land use planning that focuses on Smart Growth principles (compact, complete, connected, centred) plays an especially important role in energy and GHG reduction.

Community-Wide Actions Taken in 2016	
	Community wide clean up promoted in the month of May
	Education re Reduce, Reuse and Recycle in the elementary schools
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Asset Management Investment Plan completed
	In-house food scrap composting and recycling
	CCRD Governance and Service Delivery Study drafted (Ph I)
	Solid Waste Management Plan drafted
	Economic Development Plan developed and approved
Corporate Actions Proposed for 2017	
	Asset Management Gap Analysis, Implementation and policy development
	Continuation of In-house food scrap composting and recycling
	Governance & Service Delivery endorsement and next steps determined (Ph II?)
	Solid Waste Management Consultation and approval by the board and the province
	Review and Update of the Official Community Plan (will be completed in 2018)

Broad Planning	
What is (are) your current GHG reduction target(s)?	(Please provide details here)
Has your local government used the Community Energy and Emissions Inventory (CEEI) to measure progress?	No

What plans, policies or guidelines govern the implementation of climate mitigation in your community?	
• Community Energy and Emissions (CEE) Plan	No
• Climate Action Plan	No
• Integrated Community Sustainability Plan	No
• Official Community Plan (OCP)	No
• Regional Growth Strategy (RGS)	No
• Do not have a plan	Yes
• Other:	N/A
Does your local government have a corporate GHG reduction plan?	No
Does your local government have a climate reserve fund or something similar?	No

2016 BUILDINGS AND LIGHTING ACTIONS

Building and Lighting Actions

Low-carbon buildings use the minimum amount of energy needed to provide comfort and safety for their inhabitants and tap into renewable energy sources for heating, cooling and power. These buildings can save money, especially when calculated over the long term. This category also includes reductions realized from energy efficient street lights and lights in parks or other public spaces.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Recycling building and Transfer station 92% completed
	Installed LED lighting at the new concession building at community park
	Installed LED lighting at ice rink
Corporate Actions Proposed for 2017	
	Final completion of the Recycling Building and Transfer Station – c/w energy efficient lighting
	Completion of Transfer Station Attendant office with high efficiency lighting

2016 ENERGY GENERATION ACTIONS

Energy Generation Actions

A transition to renewable or low-emission energy sources for heating, cooling and power supports large, long-term GHG emissions reductions. Renewable energy including waste heat recovery (e.g. from biogas and biomass), geo-exchange, micro hydroelectric, solar thermal and solar photovoltaic, heat pumps, tidal, wave, and wind energy can be implemented at different scales, e.g. in individual homes, or integrated across neighbourhoods through district energy or co-generation systems.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	New design for pool mechanical system with high efficiency heat pumps for water heating.

Energy Generation	
Is your local government developing, or constructing:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government operating:	
<ul style="list-style-type: none"> • A district energy system • A renewable energy system 	No No
Is your local government connected to a district energy system that is operated by another energy provider?	Yes
Are you aware of the Integrated Resource Recovery guidance page on the BC Climate Action Toolkit ?	No

2016 GREENSPACE/ NATURAL RESOURCE PROTECTION

Greenspace Actions

Greenspace/Natural Resource Protection refers to the creation of parks and greenways, boulevards, community forests, urban agriculture, riparian areas, gardens, recreation/school sites, and other green spaces, such as remediated brownfield/contaminated sites as well as the protection of wetlands, waterways and other naturally occurring features.

Community-Wide Actions Taken in 2016	
	Creation of Trails Alliance and joint planning with Community Forest for recreation reserves.
Community-Wide Actions Proposed for 2017	
	Establishment of official recreation trails

Corporate Actions Taken in 2016	
	Application to BC Hydro/Trees Canada for re-greening grant for TCWRC transfer station
Corporate Actions Proposed for 2017	

	Airport obstacle clearing – archaeology and environmental assessments
	Official Community Plan development (will continue into 2018)
	Re-greening of transfer station area

Greenspace	
Does your local government have urban forest policies, plans or programs?	No

2016 SOLID WASTE ACTIONS

Solid Waste Actions

Reducing, reusing, recycling, recovering and managing the disposal of the residual solid waste minimizes environmental impacts and supports sustainable environmental management, greenhouse gas reductions, and improved air and water quality.

Community-Wide Actions Taken in 2016	
Community-Wide Actions Proposed for 2017	
	Promote community garbage clean up during Pitch In Week

Corporate Actions Taken in 2016	
	Office organics composting and recycling
	Staff undertook and promoted community garbage clean up during Pitch In Week
Corporate Actions Proposed for 2017	
	Continue in-house composting and recycling
	Implement new public information campaign on waste reduction, re-use and recycling

<ul style="list-style-type: none"> • Cycling • Transit Use • Electric Vehicle Use • Other (Trail Master Plan by others) 	<p>No</p> <p>Yes</p> <p>No</p> <p>Yes</p>
Does your local government have a transportation demand management (TDM) strategy (e.g. to reduce single-vehicle occupancy trips, increase travel options, provide incentives to encourage individuals to modify travel behavior)?	No
Does your local government have policies, plans or programs to support local food production (thus reducing transportation emissions)?	Yes

2016 WATER AND WASTEWATER ACTIONS

Managing and reducing water consumption and wastewater is an important aspect of developing a sustainable built environment that supports healthy communities, protects ecological integrity, and reduces greenhouse gas emissions.

Community-Wide Actions Taken in 2016	
	Promoted water conservation during pre-drought conditions
Community-Wide Actions Proposed for 2017	

Corporate Actions Taken in 2016	
	Promoted water conservation in the Bella Coola town site
	Developed small water system for use in community park
	Developed new engineered septic system at community park
Corporate Actions Proposed for 2017	
	Leak detection on Bella Coola town site water system

Water Conservation	
Does your local government have water conservation policies, plans or programs?	No

2016 CLIMATE CHANGE ADAPTATION ACTIONS

Climate Change Adaptation Actions

For local governments, adaptation to a changing climate can take the form of changes in policy, management, technology and behaviour that minimize negative impacts or exploit opportunities. It can involve both “hard” and “soft” solutions, including: changes in infrastructure engineering, planning, zoning, bylaws, and public education.

Climate Change Adaptation Actions Taken in 2016	
	Worked with SD 49 on developing a new Denny Island/Shearwater water system
Climate Change Adaptation Actions Proposed for 2017	
	Continue to monitor progress and prepared to partner on Denny Island/Shearwater water initiatives

Resources you have used to support climate change adaptation (e.g. Plan2Adapt, Preparing for Climate Change: Implementation Guide)	

In 2016 did you consider climate change impacts in any of the following areas? (check if yes)	
Risk reduction strategies	
Risk and Vulnerability assessment	X
Asset management	
Infrastructure upgrades (e.g. storm water system upgrades)	X
Cross-department working groups	
Emergency response planning	
Land-use policy changes (e.g. OCP, DPA)	X

Solid Waste	
Does your local government have construction and demolition waste reduction policies, plans or programs?	No
Does your local government have organics reduction/diversion policies, plans or programs?	No

2016 TRANSPORTATION ACTIONS

Transportation Actions

Transportation actions that increase transportation system efficiency, emphasize the movement of people and goods, and give priority to more efficient modes, e.g. walking, cycling, ridesharing, and public transit, can contribute to reductions in greenhouse gas emissions and more livable communities.

Community -Wide Actions Taken in 2016	
	Advocated cycling/walking space along Hwy 20
	Facilitated continuation of public transit service in the Bella Coola Valley
Community-Wide Actions Proposed for 2017	
	Facilitate improved parking spaces at the Harbour with BC Ferries, MOTI and the Harbour Authority
	Bella Coola Trail Master Plan
	Facilitate continuation of public transit service in the Bella Coola valley

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	
	Obstacle clearing at Airport will increase capacity and efficiency

Transportation	
Does your local government have policies, plans or programs to support:	No
• Walking	

Economic diversification initiatives YES Ecosystem-based approaches (incl. shorelines) Incentives (e.g. property owner reducing storm water run-off) Public education and awareness YES Research (e.g. mapping, participation in studies) Other (Please Identify):	
---	--

2016 OTHER CLIMATE ACTIONS

Other Climate Actions

This section provides local governments the opportunity to report other climate actions that are not captured in the categories above.

Community-Wide Actions Taken in 2016	
	Establishment of early seral stage forests in Tweedsmuir Park through removal of old growth Douglas Fir vets as an alternative heating fuel source to conventional fossil fuels.
	Continued Community Forest industrial logging activity to maximize use of wood fiber as a carbon sink and sustainable GHG friendly building product and regenerate the landscape with high carbon consuming early seral stage forests.
	Explored local supply and demand to increase procurement from local food producers
Community-Wide Actions Proposed for 2017	
	Community Forest industrial logging activity to maximize use of wood fiber as a carbon sink and sustainable GHG friendly building product and regenerate the landscape with high carbon consuming early seral stage forests.

Corporate Actions Taken in 2016	
Corporate Actions Proposed for 2017	

Other	
Are you familiar with the Community Lifecycle Infrastructure Costing Tool (CLIC) ?	Yes
Have you used CLIC?	No

INNOVATION AND PEER-TO-PEER LEARNING

Innovation

This section provides the opportunity to showcase an innovative Corporate and/or Community-Wide GHG reduction or climate change adaptation activity that your local government has undertaken and that has had or has the potential to have a significant impact. Projects included here may be featured as success stories on the B.C. Climate Action Toolkit and/or shared with other local governments to inspire further climate action. Please add links to additional information where possible.

Community-Wide Innovative Action
Corporate Innovative Action

Programs, Partnerships and Funding Opportunities

Local governments often rely on programs, partnerships and funding opportunities to achieve their climate action goals. Please share the names of programs and organizations that have supported your local government’s climate actions by listing each entry in the box below.

Programs and Funding

--

2016 CARBON NEUTRAL REPORTING

Local governments are required to report on their progress in achieving their carbon neutral goal under the Climate Action Charter. Working with B.C. local governments, the joint Provincial-UBCM Green Communities Committee (GCC) has established a common approach to determining carbon neutrality for the purposes of the Climate Action Charter, including a Carbon Neutral Framework and supporting guidance for local governments on how to become carbon neutral.

Prior to completing this survey, please ensure that you are familiar with guidance available on the B.C. Climate Action Toolkit website, especially Becoming Carbon Neutral: A Guide for Local Governments in British Columbia.

Reporting Emissions

Did you measure your local government's corporate GHG emissions in 2016?	No
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from services delivered <u>directly</u> by your local government:	N/A
If your local government measured 2016 corporate GHG emissions, please report the number of corporate GHG emissions (in tonnes of carbon dioxide equivalent) from <u>contracted</u> services:	N/A
TOTAL A: CORPORATE GHG EMISSIONS FOR 2016	tCO2e

Reporting Reductions and Offsets

To be carbon neutral, a local government must balance their TOTAL corporate GHG emissions by one or a combination of the following actions:

- undertake GCC-supported Option 1 Projects
- undertake GCC-supported Option 2 Projects (community GHG emissions reduction projects that meet project eligibility requirements)
- purchase carbon offsets from a credible offset provider

If applicable, please report the 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO2e)) being claimed from Option 1 GHG Reduction Projects:

OPTION 1 PROJECTS	REDUCTIONS
Energy Efficient Retrofits	
Solar Thermal	

Household Organic Waste Composting	
Low Emission Vehicles	
Avoided Forest Conversion	
TOTAL B: REDUCTIONS FROM OPTION 1 PROJECTS FOR 2016	tCO₂e

If applicable, please report the names and 2016 GHG emissions reductions (in tonnes of carbon dioxide equivalent (tCO₂e)) being claimed from Option 2 GHG Reduction Projects:

OPTION 2 PROJECT NAME	REDUCTIONS
TOTAL C: REDUCTIONS FROM OPTION 2 PROJECTS FOR 2016	tCO₂e

If applicable, please report the number of offsets purchased (in tonnes of carbon dioxide equivalent (tCO₂e)) from an offset provider for the 2016 reporting year:

(NOTE: DO NOT INCLUDE ANY FUNDS THAT MAY BE SET ASIDE IN A CLIMATE ACTION RESERVE FUND)

OFFSET PROVIDER NAME	OFFSETS
TOTAL D: OFFSETS PURCHASED FOR 2016	tCO₂e

TOTAL REDUCTIONS AND OFFSETS FOR 2016 (Total B+C+D) = tCO₂e

Corporate GHG Emissions Balance for 2016

Your local government's Corporate GHG Emissions Balance is the difference between total corporate GHG emissions (direct + contracted emissions) and the GHG emissions reduced through GCC Option 1 and Option 2 projects and/or the purchase of offsets.

CORPORATE GHG EMISSIONS BALANCE FOR 2016 = (A – (B+C+D)) = tCO₂e

**If your Corporate GHG Emissions Balance is negative or zero,
your local government is carbon neutral.
CONGRATULATIONS!**

GCC CLIMATE ACTION RECOGNITION PROGRAM

Green Communities Committee (GCC) Climate Action Recognition Program

The joint Provincial-UBCM Green Communities Committee (GCC) is pleased to be continuing the Climate Action Recognition Program again this year. This multi-level program provides the GCC with an opportunity to review and publicly recognize the progress and achievements of each Climate Action Charter (Charter) signatory.

This year a new recognition level has been added – **Level 3: Accelerating Progress on Charter Commitments**–. Recognition is provided on an annual basis to local governments who demonstrate progress on their Charter commitments, according to the following:

Level 1 – Demonstrating Progress on Charter Commitments: for local governments who demonstrate progress on fulfilling one or more of their Charter commitments

Level 2 – Measuring GHG Emissions: for local governments that achieve level 1, and who have measured their Corporate GHG Emissions for the reporting year and demonstrate that they are familiar with the Community Energy and Emissions Inventory (CEEI)

Level 3 – Accelerating Progress on Charter Commitments: for those local governments who have achieved level 1 and 2 and have demonstrated undertaking significant action (corporately or community wide) to reduce GHG emissions in the reporting year (ie: through undertaking a GHG reduction project, purchasing offsets, establishing a reserve fund).

Level 4 - Achievement of Carbon Neutrality: for local governments who achieve carbon neutrality in the reporting year.

For purposes of Level 3 recognition, if applicable, please identify any new or ongoing corporate or community wide GHG reduction projects (other than an Option 1 or Option 2 project) undertaken by your local government that reflects a significant investment of time or financial resources and is intended to result in significant GHG reductions:

PROJECT NAME:
N/A

Based on your local government's 2016 CARIP Climate Action/Carbon Neutral Progress Survey, please check the GCC Climate Action Recognition Program level that best applies:

<input type="checkbox"/>	Level 1 – Demonstrating Progress on Charter Commitments	X
<input type="checkbox"/>	Level 2 – Measuring GHG Emissions	
<input type="checkbox"/>	Level 3 – Accelerating Progress on Charter Commitments	
<input type="checkbox"/>	Level 4 - Achievement of Carbon Neutrality	
<input type="checkbox"/>	Not Sure	

**Carbon Tax Calculation Form
Under the Climate Action Revenue Incentive Program**

Local Government Name:	CENTRAL COAST REGIONAL DISTRICT
Contact Information:	
Name:	Donna Mikkelson
Position:	Chief Financial Officer
Telephone Number:	250-799-5291
Email address:	cfo@ccrd-bc.ca

**Calculation of carbon tax paid directly by the local government
for fuel purchased between January 1 and December 31, 2016**

Fuel Type	Unit measure	Units	Tax Rate per unit, January 1, 2016 to December 31, 2016	Carbon Tax paid
-----------	--------------	-------	---	-----------------

Most common fuels in a local government context:

Gasoline	Litre	285.5	0.0667	19.04285
Diesel	Litre	176.7	0.0767	13.55289
Bio-Diesel ²	Litre		0.0767	0
Natural Gas	Gigajoule ³		1.4898	0
Natural Gas	m ³ ³		0.057	0
Propane	Litre	1424.6	0.0462	65.81652


Other fuels which are taxed:

Heating Oil	Litre	9975.8	0.0767	765.14386
Locomotive Fuel	Litre		0.0767	0
Heavy Fuel Oil	Litre		0.0945	0
Aviation Fuel	Litre		0.0738	0
Jet Fuel	Litre		0.0783	0
Kerosene	Litre		0.0783	0
Naphtha	Litre		0.0765	0
Methanol	Litre		0.0327	0
Butane	Litre		0.0528	0
Ethane	Litre		0.0294	0
Refinery Gas	m ³		0.0528	0
Coke Oven Gas	m ³		0.0483	0
Coal -- Low Heat Value ⁴	Tonne		53.31	0
Coal -- High Heat Value ⁴	Tonne		62.31	0
Coke	Tonne		74.61	0
Petroleum Coke	Litre		0.1101	0
Tires -- shredded ⁵	Tonne		71.73	0
Tires -- whole ⁵	Tonne		62.4	0
Peat	Tonne		30.66	0

Total Carbon Tax Paid: 863.55612

1. Only list fuels that were purchased for the local government's own use, on which carbon tax was paid, and where that carbon tax was not refunded or recovered from another party (e.g., through a lease arrangement). Also do not include any fuels that were exempted from carbon tax (for more information
2. Bio-diesel blends must be prorated in order to claim the diesel and bio-diesel portions on the appropriate line. The proportion of the blend (B5, B10, B15 etc) that is conventional hydrocarbon-based diesel is included on the diesel line; consequently, the bio-diesel pro-rated amount must be entered on the bio-diesel line. For example, a 10,000 litre purchase of B10, which is 10% bio-diesel and 90% hydrocarbon-based diesel, would be recorded as 9,000 litres hydrocarbon-based diesel (90% of 10,000
3. Marketable Natural Gas may be recorded at either Gigajoules or m³
4. Low Heat Value Coal includes Sub-Bituminous Coal; High Heat Value Coal includes Bituminous Coal
5. Only include tires if they are combusted

I declare that the information contained in this Carbon Tax Calculation Form is true and correct and based on actual accounting records and not estimates. I am also aware of the requirement to report publicly by June 1st.

Donna Mikkelson 

Signature of Financial Officer